IN THE CLAIMS:

1. A system of active neuro-protection for detecting and arresting injury to an individual comprising:

a sensing means for sensing the occurrence of a predetermined event within an environment and for operatively transmitting an event indicating signal;

a controller operatively in communication with said sensing means, wherein said controller includes a processor for processing said event indicating signal to determine if a predetermined condition is met for releasing a neuro-protective agent;

a dispensing means for releasing a neuro-protective drug, wherein said dispensing means is operatively in communication with said controller, and releases said neuro-protective drug if said controller transmits a drug releasing signal to said dispensing means if the predetermined condition is met.

2. A system as set forth in claim 1 wherein said controller is operatively in communication with a remotely located computer monitoring system for remotely monitoring the individual within the environment by receiving an event indicating signal from the sensing mechanism and transmitting a drug releasing signal to the dispensing means to release the neuro-protective drug if the predetermined condition is met.

3. A system as set forth in claim 1 wherein said signal is a radio frequency signal, and said remotely located computer system, said controller, said sensing means and said dispensing means each includes a transceiver for transmitting and receiving the radio frequency signal.

4. A system as set forth in claim 1 wherein said dispensing means releases said neuro-protective drug in an atomized mist that is automatically inhaled by the individual.

5. A system as set forth in claim 1 wherein said dispensing means releases said neuro-protective drug by automatically injecting the neuro-protective drug into the bloodstream of the individual.

6. A system as set forth in claim 5 wherein said dispensing means is contained within a body mounted dispensing mechanism.

7. A system as set forth in claim 1 wherein said sensing means, controller and dispensing means are integrally contained within a housing.

8. A system as set forth in claim 1 wherein said predetermined condition is if a force is exerted on the individual that exceeds a predefined level that would cause injury to the brain and/or spinal cord of the individual.

9. A system as set forth in claim 1 wherein said predetermined condition is a presence of a chemical agent within the environment of the individual that exceeds a predefined level that would cause injury to the brain and/or spinal cord of the individual.

10. A system as set forth in claim 1 wherein the environment is a vehicle, and the dispensing mechanism is positioned near the nose of the individual seated in the vehicle.

11. A system as set forth in claim 1 wherein the environment is a vehicle, and the sensing means is positioned on a vehicle body component, and the dispensing means is positioned within a vehicle seat.

12. A system as set forth in claim 1 wherein the environment is a vehicle, and the sensing means and the dispensing means are integrally disposed within a vehicle seat.

13. A system as set forth in claim 1 wherein said neuro-protective drug is from a class of drugs that functionally arrest injury to the central nervous system of the individual.

14. A system as set forth in claim 1 wherein said sensing means, said controller and said dispensing means are disposed within a protective headgear, and said neuro-protective drug is inhaled by the individual.

15. A method of active neuro-protection for detecting and arresting traumatic injury to the brain and/or spine of an individual, said method comprising the steps of:

monitoring for a predetermined condition that would induce a traumatic injury to an individual within an environment using a sensing means;

determining if the predetermined traumatic injury inducing condition is detected by a controller receiving a signal from the sensing means; and

dispensing a neuro-protective drug from a dispensing means operatively in communication with the controller if the predetermined traumatic injury inducing condition is detected.

16. A method as set forth in claim 15 further including the step of continuing to monitor the environment if the predetermined traumatic injury inducing condition is not detected.

17. A method as set forth in claim 15 wherein said neuro-protective drug is from a class of drugs that functionally arrest injury to the central nervous system of the individual.

18. A method as set forth in claim 15 further including the step of remotely monitoring the individual within the environment using a remotely located computer monitoring system for remotely monitoring the individual within the environment by receiving an event indicating signal from the

sensing mechanism and transmitting a drug releasing signal to the dispensing means to release the neuro-protective drug if the predetermined condition is met.

19. A method as set forth in claim 15 further including the step of locating the dispensing mechanism near the nose of the individual so that the individual automatically inhales the released neuro-protective drug.

20. A method as set forth in claim 15 further including the step of locating a body mounted dispensing mechanism on the body of the individual so that the released neuro-protective drug is automatically injected into the body of the individual.

21. A method of active neuro-protection for detecting and arresting traumatic injury to the brain and/or spine of an individual, said method comprising the steps of:

locating a body mounted dispensing mechanism on the body of the individual, wherein the body mounted dispensing mechanism contains a neuro-protective drug from a class of drugs that functionally arrest injury to the central nervous system of the individual;

monitoring for a predetermined condition that would induce a traumatic injury to an individual within an environment using a sensing means;

determining if the predetermined traumatic injury inducing condition is detected by a controller receiving a signal from the sensing means;

dispensing the neuro-protective drug from the body-mounted dispensing mechanism, which is operatively in communication with the controller, if the predetermined traumatic injury inducing condition is detected; and

continuing to monitor the environment if the predetermined traumatic injury inducing condition is not detected.

22. A method as set forth in claim 21 further including the step of remotely monitoring the individual within the environment.